

IN THE CLAIMS:

1. (Currently Amended) A method of recognizing a spoken digit string,
comprising:

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- (a) receiving the spoken digit string;
 - (b) analyzing the spoken digit string to generate a list of hypothesized digit strings arranged in ranked order based on a likelihood of matching the spoken digit string;
 - (c) determining whether individual hypothesized strings of said list satisfy a given constraint, using a given knowledge based recognition strategy;
 - (d) selecting the first string in the list satisfying the constraint as the recognized string,
if none of the hypothesized digit strings satisfy the constraint,
 - (e) prompting entry of a repeated spoken digit string, which is a **an entire** repeat of the spoken digit string entered in step (a);
 - (f) analyzing the repeated spoken digit string to generate a second list of hypothesized digit strings arranged in ranked order based on a likelihood of matching the repeated spoken digit string; and one of:
 - (g) (i) selecting the recognized string in accordance with a comparison of the first and second list if the constraint is satisfied; or
 - (ii) performing additional verification techniques to determine the correct digit string until the constraint is satisfied, and then subsequently selecting the correct digit string, wherein said additional verification techniques include performing at least one of a checksum approach with the N-best list and a personal identification

number, a database match comparison with valid entries, digit positional constraints and fuzzy matching criterion.

2. (Original) The method of claim 1 wherein said given knowledge based recognition strategy comprises a database matching scheme.

3. (Original) The method of claim 2, wherein step (c) comprises searching a databases of valid data strings to determine whether any of the hypothesized digit strings match one of the valid digit strings.

4. (Original) The method of claim 1 wherein the knowledge based recognition strategy is a checksum scheme.

5. (Original) The method of claim 4 wherein the spoken digit string includes a checksum digit, and wherein step (c) comprises calculating a checksum of the hypothesized digit strings and determining whether the checksum matches the value of the checksum digit.

6. (Cancelled).

7. (Original) The method of claim 4 wherein the checksum scheme utilized a Luhn checksum algorithm.

8. (Cancelled).

9. (Cancelled).

10. (Cancelled).

11. (Cancelled).

12. (Cancelled).

13. (Original) The method of claim 1 wherein the knowledge based recognition strategy is a digit positional strategy and the constraining is a given digit position.

E 14. (Original) The method of claim 1 wherein the knowledge based recognition strategy is a digit string length strategy and the constraint is a given digit string length.

15. (Previously presented) The method of claim 1 wherein step (g) comprises:
(h) determining whether individual hypothesized strings of the second list match one of the hypothesized digit strings in the list generated in step (b) in order beginning with the string having the greatest likelihood of matching the second spoken string; and

(i) selecting as the recognized string of the first string in the second list matching one of the hypothesized digit strings generated in step (b).

16. (Previously presented) The method of claim 1 wherein step (g) comprises:
(h) determining whether individual hypothesized strings of the list generated in step (b) match one of the hypothesized digit strings in the second list in

order beginning with the string have the greatest likelihood of matching the spoken string received in step (a); and

(i) selecting as the recognized string the first string in the said list generated in step (b) matching one of the hypothesized digit strings of said second list.

17. (Cancelled).

18. (Previously presented) The method of claim 1 further comprising the step of prompting entry of a spoken digit string prior to its receipt in step (a).
